SONY

3-755-305-23 (1)

Compact Disc Compact Player

COMPACT disc DIGITAL AUDIO

D-32/33/34/36

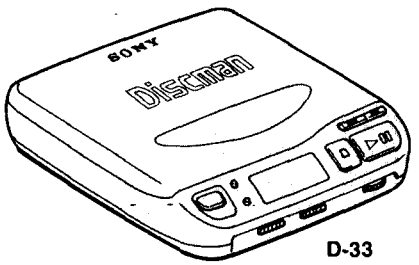
Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model number and the serial number are located at the bottom. Record the model and serial numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____



D-33

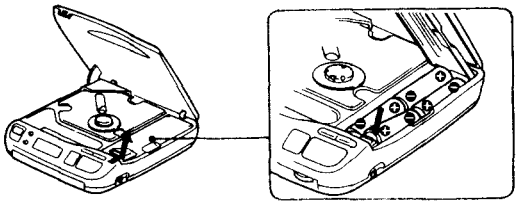
MEGA BASS
Discman

Sony Corporation ©1992 Printed in Japan

Power Sources

Using Batteries

Install four size AA (LR6) alkaline batteries.
Approximately 8 hours of disc playing is possible.



Close the battery compartment lid firmly.

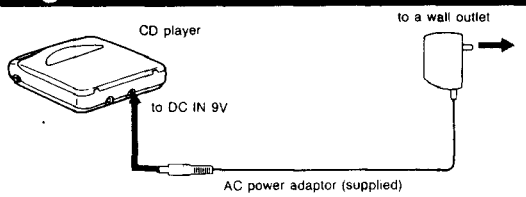
Note

The indication appears on the display window when the unit is operated. The indication flashes when the batteries become weak and the operation automatically stops. In this case, replace all the batteries with new ones.
It also blinks when you press ▶II or ■, or when the player gets a shock.

Notes on batteries

- Insert the batteries with correct polarity.
- Do not use old batteries with new ones or different types of batteries together.
- You cannot charge the battery.
- If the electrolyte inside the battery should come into contact, wash the contaminated parts in the battery box with a cloth and replace the old batteries with new ones.
- When the batteries are not used for a long period of time, remove them.
- When operating the unit on house current or car battery, if the AC power adaptor or car battery cord is disconnected from the DC IN 9V jack, the unit stops its operation even when the batteries are installed to prevent undue battery consumption. To continue operation, press the operation button again.

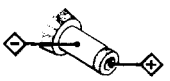
Using on House Current



When the player is not used, be sure to disconnect the AC power adaptor from the unit and from a wall outlet.

Note on the AC power adaptor

Use only the supplied AC power adaptor or optional Sony AC power adaptor AC-E6M or AC-E90M.
Never use any other adaptors manufactured by Sony because the polarity of the supplied adaptor is opposite of the conventional adaptors. Do not use the supplied AC power adaptor for other "Discman" CD compact players with *DC IN 9 V* jack, nor the optional AC power adaptor such as the AC-D6M.



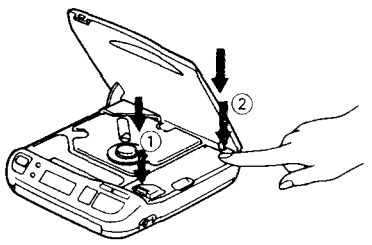
Polarity of the plug
(Unified polarity type)

The unit may become warm

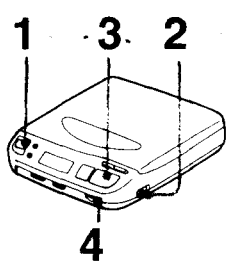
The bottom of the unit may be warm during operation, which is normal. If it is unusually warm, disconnect the AC power adaptor and consult your Sony dealer.

If the battery compartment lid is removed

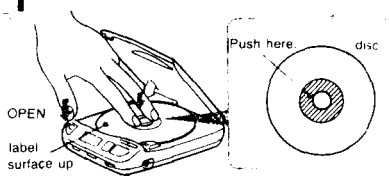
Replace it by pushing both sides in the numbered order as shown.



Disc Playing

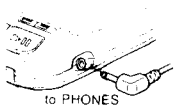


1 Set the disc.

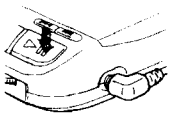


Push the disc gently until it clicks so that the disc fits into the pivot, black portion. Close the lid of the unit after setting the disc.

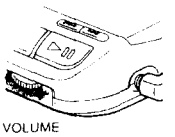
2 Connect stereo headphones.



3 Press ▶II.



4 Adjust VOLUME.



Notes

- If you press ▶II with the disc inserted upside down, the indication "00" appears in the display window, and the sound does not come out. Press ■ to stop the disc playing and reinsert the disc with the label surface up.
- To play an 8 cm (3-inch) disc, you can play it without an adaptor.

Other operations

Operation	Button to be pressed
To pause	▶II
To release the pause mode	▶II
To stop	■

When you press ■, disc playing stops and the power is turned off automatically.

To remove the Disc

Pick up the disc, holding the edge, while pressing the pivot gently as illustrated.

To emphasize the bass sounds (only when using headphones)

Set the BASS BOOST switch according to the music. The bass sound is emphasized so that you can enjoy heavy and dynamic sound.

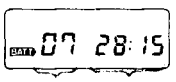
Note

The bass boost function may be reduced depending on the recording level or VOLUME control setting.

On Display Window

On time counter

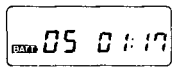
When you press ▶II, total selection number of the disc and then the total playing time appear.



Total selection number | Total playing time

During the play

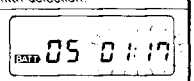
The track number and the elapsed playing time of the current selection appear.



1 min. 17 sec. has elapsed from the beginning of the fifth selection.

During the pause

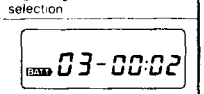
The elapsed playing time of the current point flashes.



Pause mode at the point 1 min. 17 sec. from the beginning of the fifth selection.

Between the selections

The time to the beginning of the next selection appears.



2 sec. to the beginning of the 3rd selection

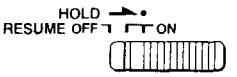
To resume the disc play from the point where you last stopped the play (Resume play mode)

You can resume the disc play from the point where you last pressed ■. To enter this mode, set the HOLD/RESUME switch to the center or the right position. The resume function can be performed in any operation mode. (Refer to the table shown in the right.)

You can hold the disc play locking the buttons to prevent them from being accidentally depressed. To enter this mode, set the HOLD/RESUME switch to the right position.

The positions of the HOLD/RESUME switch

	1st. (left)	2nd. (center)	3rd. (right)
Hold	OFF	OFF	ON
Resume Play mode	OFF	ON	ON

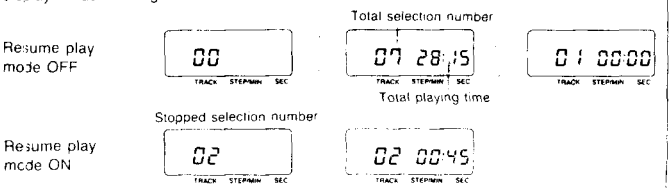


HOLD/RESUME switch

Note on the display window while the disc is playing

When the disc play starts

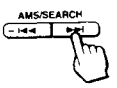
The display window changes as follows.



Notes

- We recommend you to install the batteries for the resume play. The memory of the stopped point will be maintained by the batteries even if you remove the car battery cord or AC power adaptor, or set the ignition key to the off position.
- The memory of the stopped point is canceled if you open the lid after pressing ■. After the memory is canceled, play starts from the first selection of the disc.

Locating a Particular Portion

	To locate the beginning of the current selection.	To locate the beginning of the next selection.
Locating a particular selection (AMS*)	Press once.	Press once
Locating a particular point in a selection (SEARCH)	To go back at high speed. Keep pressing.	To go ahead at high speed.  Keep pressing.

* AMS is the abbreviation of Automatic Music Sensor.

Notes on the AMS function

- The player pauses at the beginning of the located selection when you press ⏮ or ⏭ in the pause mode.
- Each time you press ⏮, the player locates the previous selection. Each time you press ⏭, the player locates the next selections and stops at the last selection.
- During the programmed play, AMS operates in the programmed order.

Note on the SEARCH function

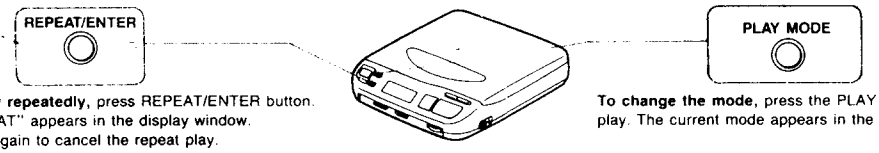
While searching, the elapsed playing time appears in the display window.

What is this indication?

If you continuously press ⏭ at the end of the disc, _|_| may appear. To return to the selection number indication, press ⏮.

Various Playing Modes

This unit has 10 playing modes.



To play repeatedly, press REPEAT/ENTER button. "REPEAT" appears in the display window. Press again to cancel the repeat play.

To change the mode, press the PLAY MODE button during play. The current mode appears in the display window.

REPEAT/ENTER button is not pressed.		REPEAT/ENTER button is pressed.	
Display window	**Play mode**	**Display window**	**Play mode**
	Normal play Playing the whole disc once and stops.	REPEAT	Repeats the whole disc.
INTRO	**INTRO play** Playing the first about ten seconds of all the selections.	REPEAT INTRO	Plays the first ten seconds of all the selections again and again.
	To start playing Press ▶II. "INTRO" stops flashing and playing starts.		Press ▶▶| again to listen to the selection to the end.
1	**Playing a single selection** Plays one selection and stops at the end of the selection	REPEAT 1	Plays a single selection repeatedly.
SHUFFLE	**Shuffle play** Plays the whole selection in a random order. Shuffle play starts from the next selection.	REPEAT SHUFFLE	Plays the selection in a random order repeatedly.
	Program play (RMS)* Playing in the desired order	REPEAT RMS	Plays the selections in the desired order repeatedly.
RMS	**To start the program play** 1 Press |◀◀ or ▶▶| to select the desired selection. Flashes RMS 05 01 Truck No. of the desired selection / The first selection 2 Press REPEAT/ENTER Flashes RMS 00 02 The 2nd (next) selection 3 Repeat the steps 1 and 2 (up to 22 selections). 4 Press the ▶▶| of the unit. "RMS" indication stops flashing and play starts.	

PLAY MODE

* RMS is the abbreviation of Random Music Sensor.

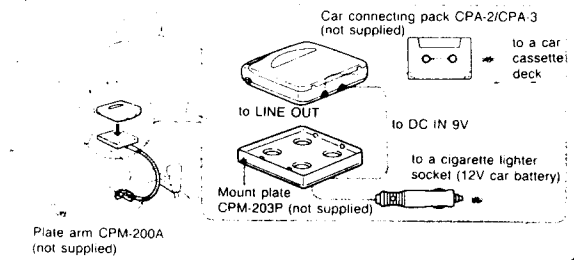
If another selection is memorized after 22 selections have been memorized
The first selection will be cleared and the new one will be memorized in its place.

During shuffle play
To locate the beginning of the selection being played: Press |◀◀
To locate the next selection: Press ▶▶|
You cannot locate a previous selection even if you keep |◀◀ depressed.

Various Ways of Using

Listening in a Car

You can listen to the CD player through a car cassette deck by using the Sony CPA-2/CPA-3 car connecting pack and the CPM-203P car mount plate (The Sony CPM-200A plate arm will facilitate attaching the mount plate to a car.)


Car connecting pack CPA-2/CPA-3 (not supplied)
to a car cassette deck
to LINE OUT
to DC IN 9V
to a cigarette lighter socket (12V car battery)
Mount plate CPM-203P (not supplied)
Plate arm CPM-200A (not supplied)

Do not put the unit on a dashboard nor leave it in a car parked in sunlight since the temperature may rise excessively.

For details, refer to the instruction manual of each product.

When you turn off the engine
When the alkaline batteries are inserted in the unit, the unit stops operation when you turn off the engine of the car. (Switched ignition function)
This function is not available with every model of the car. If not, press the ■ button to stop operation.

Notes on connecting with the car battery
- When disconnecting the unit from the cigarette lighter socket (or from the AC power adaptor), the power source shuts down in order to save battery consumption.
- Unplug the unit from the cigarette lighter socket when it is not being used. Otherwise, it may drain the car battery.
- Any connection other than the CPA-2/CPA-3 may cause noise. Some cassette decks may not accept the CPA-2/CPA-3.

Note on Mount Plate CPM-200P
The unit uses the plug of EIAJ standard polarity to DC output 9 V. When you use CPM-200P, consult your Sony dealer.

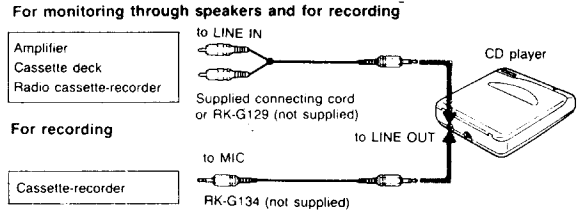
Using the battery cord
Use the car battery cord DCC-E190M/DCC-E50.

Recommended accessories for listening in a car (not supplied)
CPM-200A plate arm
CPM-203P mount plate
CPM-203PK car mount arm (plate arm and mount plate)

Connecting with Other Equipment

You can listen to the CD player through speakers, or record its sound.

For monitoring through speakers and for recording



For recording

Notes on connection
- Turn off the amplifier before making connections.
- Plug in the white plug to the L (left channel) jack, and the red plug to the R (right channel) jack.
- Be sure to insert the cable connectors firmly into the jacks. Loose connections may cause hum and noise.
- Be sure not to connect the CD player to the PHONO input jack of the amplifier.
- If the CD player causes interference to radio and television reception, turn off the player or move the player away from the receiver.

Maintenance

Cleaning the Casing

Clean the casing with a soft cloth slightly moistened with water or mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine as they may mar the finish of the casing.

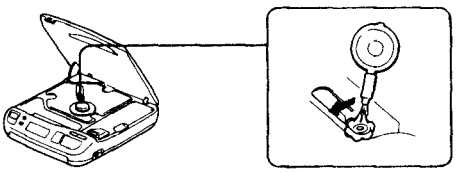
Cleaning the Lens

If you have accidentally touched the lens with a dirty finger or if the dust on the lens prevents the unit from operating properly, open the disc compartment lid and clean the lens.

To remove dust

Blow on the lens a few times with a commercially available blower, brush the dust away in the direction of the arrow, then blow on the lens again.

If the lens is still dirty after you have followed the above instructions and the unit still does not function properly, please consult your nearest Sony dealer.



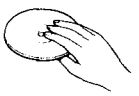
Notes on Compact Discs

Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in the temperature inside the car.

Before playing, clean the disc with the cleaning cloth (not supplied). Wipe the disc from the center out.

Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.

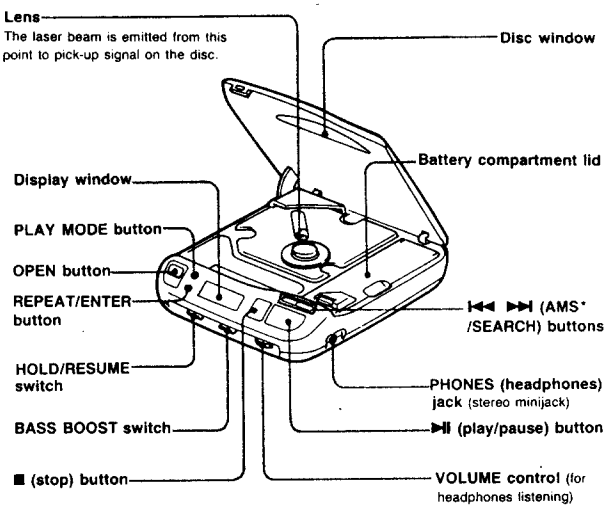
After playing, store the disc in its case.

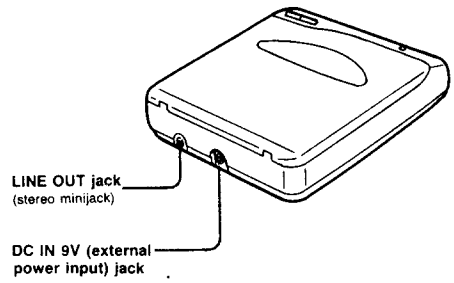
This way	Not this way	Not this way
		
Handle the disc by its edge.	Do not touch the surface.	Do not stick paper to tape nor write anything on the surface.

Cleaning the Headphones Plug

Keep the plug of your headphones clean to obtain the optimum sound. Wipe it with a dry, soft cloth.

Location and Function of Controls





*AMS is an abbreviation for Automatic Music Sensor.

Specifications

CD section

System	Compact disc digital audio system
Laser diode properties	Material: GaAlAs Wavelength: λ = 780 nm Emission duration: Continuous Laser output: Less than 44.6 μW (This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.)
D-A conversion	16-bit linear 8fs digital filter (D-32, D-33) 1-bit quartz time axis control (D-34, D-36)
Error correction	Sony Super Strategy Cross Interleave Read Solomon Code (D-32, D-33) Cross Interleave Read Solomon Code (D-34, D-36)
Frequency response	20–20,000 Hz $^{+1.5}_{-2.5}$ dB (measured by EIAJ CP-307)
Output (at 9V input level)	Line output (stereo minijack) Output level 1 V rms at 47 kilohms (D-32, D-33) Output level 0.54 V rms at 47 kilohms (D-34, D-36) Load impedance over 10 kilohms Headphones (stereo minijack) 5 mW + 5 mW at 16Ω

General

Power requirements	**Supplied:** • DC IN 9V jack accepts the Sony AC power adaptor for use on: 120V AC, 60Hz in the U.S.A. 240V AC, 50Hz in the United Kingdom/Australia **Optional:** • DC IN 9V accepts the Sony CPM-203P mount plate and CPM-200A plate arm for use on 12V car battery. • DC 6V, four size AA (LR6) alkaline batteries
Power consumption	1.2W DC

Precautions

On safety

- As the laser beam used in this compact disc player is harmful to the eyes, **do not attempt to disassemble the casing.** Refer servicing to qualified personnel only.
- **Do not put anything in the safety slot inside the disc compartment.** If you do, the laser beam may come out when the lid is opened.
- The lens on the disc table should be kept clean. **Do not touch the lens or poke at it.** If you do, the lens may be damaged and the player will not operate properly.
- When the unit is used with the AC power adaptor, do not wrap the unit in a cloth, blanket, etc. If you do so, the temperature inside and outside the unit may rise considerably, resulting in malfunctioning of the unit or serious accidents.
- Should any solid object or liquid fall into the player, disconnect the power source and have the player checked by qualified personnel before operating it any further.
- Do not put anything in the DC IN 9V (external power input) jack.
- When the unit will not be used for a long time, be sure to remove the batteries, or disconnect the AC power adaptor or mount plate from the unit. To remove the AC power adaptor from the wall outlet, grasp the adaptor itself; never pull it by the cord.

On power sources

- Use batteries, house current, or a car battery.
- For AC operation: Use the AC power adaptor supplied with this player. Do not use any other AC power adaptor as it may cause malfunction.
- For car battery operation: Use the optional car mount arm CPM-203PK (or mount plate CPM-203P) and car connecting pack CPA-2/CPA-3.

On operation

Since the CD system offers a wide dynamic range, the peaks of the high level inputs are recorded with high fidelity, and the noise level is very low. **Do not turn up the volume while listening to a portion with no audio signals or very low level inputs.** If you do, the speakers may be damaged when a peak level portion is played.

On installation

- Never put the unit:

— near heat sources such as radiators or airducts.
— in direct sunlight.
— exposed excessive dust.
— exposed moisture or rain.
— exposed mechanical vibration or shock.
— in an inclined position.

- If the player is brought directly from a cold location to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the player. Should this occur, the player will not operate. In this case, **remove the disc and leave the player in a warm place for several hours until the moisture evaporates.**
- For the unit to operate at its best, it should not be subjected to temperatures below 5°C (41°F) or above 35°C (95°F).

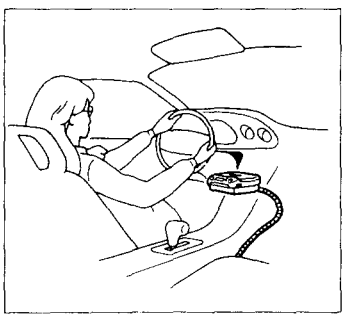
If you have any questions or problems concerning your unit, please contact your nearest Sony dealer.

Dimensions	Approx. 137 × 35 × 155.3 mm ($5\frac{1}{2}$ × $1\frac{7}{16}$ × $6\frac{1}{8}$ in.) (w/h/d) incl. projecting parts and controls
Weight	Approx. 410 g (14.5 oz.) net Approx. 505 g (18 oz.) incl. batteries
Supplied accessories	AC power adaptor (1) Connecting cord (phono plug × 2 ↔ stereo miniplug × 1) (1) Stereo headphones (1)

Design and specifications subject to change without notice.

Optional accessories

Plate arm CPM-200A
Mount plate CPM-203P
Car mount arm CPM-203PK
Car connecting pack CPA-2/CPA-3
Car battery cord DCC-E190M/DCC-E50
Active speaker system SRS-58



Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information about the accessories in your country.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

For the Customers in the United States

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.
Relocate the equipment with respect to the receiver.
Move the equipment away from the receiver.
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

CAUTION

The use of optical instruments with this product will increase eye hazard.

For the Customers in the United Kingdom

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This Compact Disc player is classified as a CLASS 1 Laser product.
The CLASS 1 LASER PRODUCT label is located on the bottom exterior.

Important

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

Notes on Headphones

Road safety

Do not use headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in many areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate of the people around you.

About This Manual

This manual includes information on four models: the D-32, D-33, D-34 and D-36. First, refer to the model name indicated on the top panel and check what your model is. Any differences in operation of the four models are clearly indicated in the text, for example, "D-33 only". However note that the illustrations used in this manual are those of the D-33.

Troubleshooting Guide

Should any problem persist after you have made the following checks, consult your nearest Sony service facility.

Symptom	Cause and/or solution
Disc play does not start.	• The disc is inserted upside down or incorrectly → Insert the disc correctly with the label surface up. • Dusty or defective disc. • Dirty or dusty lens. • The disc compartment lid is not closed. • Moisture condensation. → Leave the player in a warm place until the moisture evaporates. • The AC power adaptor is not plugged into the wall outlet. • The cord of the mount plate (not supplied) is not firmly connected to a cigarette lighter socket. • The unit is not placed on a level surface. • The disc is incorrectly inserted. • The HOLD/RESUME switch is set to the right position.
No sound from the headphones.	• The headphones plug is not firmly connected to the PHONES jack. • Adjust the VOLUME control. • Dirty plug.
No sound from the connected speakers.	• Dirty or defective disc. • The amplifier is not turned on.
Skipping of sound	• Dirty or defective disc. • Dirty lens. • Strong vibration.